

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**WESTLAKE VINYL COMPANY, L.P.**  
**CHLOR-ALKALI PLANT**  
**PROPOSED INITIAL PART 70 AIR OPERATING PERMIT**

The LDEQ, Office of Environmental Services, is accepting written comments on proposed initial Part 70 air operating permit for Westlake Vinyls Company, L.P., P.O. Box 228, Geismar, LA 70734-0228 for the Chlor-Alkali Plant. **The facility is located at 36045 Highway 30, Geismar, Ascension Parish.**

Westlake Vinyls Company, LP (WVC) requested a permit to construct the Chlor-Alkali Plant at the Westlake Vinyl Company Complex in Geismar, Louisiana. The property is located northeast of the Illinois Central Gulf Railroad on LA Highway 73 immediately east of the junction with LA Highway 30. The primary components of the proposed Chlor-Alkali Plant include a chlorine manufacturing and recovery unit, an HCl synthesis unit and a caustic recovery unit.

**This permit was processed as an expedited permit in accordance with LAC 33:I.Chapter 18.**

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Proposed</u>
PM <sub>10</sub>	14.46
SO <sub>2</sub>	0.39
NO <sub>X</sub>	19.71
CO	54.11
VOC	3.55

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Wednesday, June 20, 2007.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, proposed initial Part 70 air permit and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at [www.deq.louisiana.gov](http://www.deq.louisiana.gov).

An additional copy may be reviewed at Ascension Parish Library-Gonzales Branch 708 S. Irma Blvd, Gonzales, LA and Iberville Parish Library-East Iberville Branch, 5715 Monticello Street, Geismar, LA.

Inquiries or requests for additional information regarding this permit action should be directed to Dr. Marta Vasquez, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3130.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [deqmaillistrequest@la.gov](mailto:deqmaillistrequest@la.gov) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit and statement of basis** can be viewed at the LDEQ permits public notice webpage at [www.deq.louisiana.gov/apps/pubNotice/default.asp](http://www.deq.louisiana.gov/apps/pubNotice/default.asp) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.doa.louisiana.gov/oes/listservpage/ldeq\\_pn\\_listserv.htm](http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number AI 1138, Permit Number 3057-V0, and Activity Number PER20070002.**

Publication date: May 18, 2007



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20070002

Agency Interest No. 1138

Mr. John V. Casey  
Operations Manager  
PO Box 228  
Geismar, LA 70734-0228

RE: Initial Part 70 Operating Permit, Chlor-Alkali Plant - Westlake Vinyls Company, LP, Geismar, Ascension Parish, Louisiana

Dear Mr. Casey:

This is to inform you that the initial permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2012, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

Permit No.: 3057-V0

Sincerely,

Chuck Carr Brown Ph.D.

Assistant Secretary

CCB:mv

c: EPA Region VI

**ENVIRONMENTAL SERVICES**

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Chlor-Alkali Plant**  
**Agency Interest No.: 1138; PER20070002**  
**Westlake Vinyls Company, LP**  
**Geismar, Ascension Parish, Louisiana**

**I. Background**

Westlake Vinyls Company, LP (WVC) proposes to construct the Chlor-Alkali Plant at the Westlake Vinyl Company Complex in Geismar, Louisiana. The property is located northeast of the Illinois Central Gulf Railroad on LA Highway 73 immediately east of the junction with LA Highway 30. The primary components of the proposed Chlor-Alkali Plant include a chlorine manufacturing and recovery unit, an HCl synthesis unit and a caustic recovery unit.

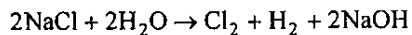
This is the initial Part 70 operating permit for the facility.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by Westlake Vinyls Company, LP dated April 4, 2007 requesting a Part 70 operating permit. Additional information dated April 12, 2007 and April 19, 2007 was also received.

**III. Description**

The WVC Chlor-Alkali Plant will utilize membrane cell technology for production of chlorine by the electrolytic process. In the basic electrolytic process, a salt solution (rock salt or brine) is electrolyzed by the action of direct current that converts chloride ions into elemental chlorine. Chlorine is produced at the anode (+) and the caustic and hydrogen are produced at the cathode (-). The process reaction is:



The membrane cell technology, which uses a set of insoluble organic polymer membranes for product separation, is the most advanced and environmentally safe of the three (3) commercially used chlorine production processes. Diaphragm cell and mercury cell are the other two (2) commercially used processes; these processes use asbestos and mercury, respectively, in the product separation step. Asbestos and mercury are Louisiana Toxic Air Pollutants (TAPs), with potentially significant environmental and health impacts.

WVC will purchase rock salt or brine as raw material. The Chlor-Alkali Plant will use salt brine from nearby brine wells or bring rock salt in by barge or railcar to produce chlorine. The rock salt or brine will then be precipitated, filtered, and passed through an ion exchange unit to remove impurities. A direct electric current will be applied. Between the anode and cathode is an insoluble organic polymer membrane to prevent the chlorine (anode) from reacting with the caustic soda (cathode). The chlorine will then be cooled, dried, compressed, and liquefied.

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**Geismar, Ascension Parish, Louisiana**

Products from the Chlor-Alkali Plant will include chlorine, 50% caustic soda, hydrogen gas, and hydrogen chloride in the form of muriatic acid. The plant is intended primarily to provide chlorine feed to the on-site ethylene dichloride (EDC) process to reduce dependence on purchased chlorine. Chlorine which may be available for sale as product will be stored in pressure vessels and transported via pipeline to units in the complex area. Hydrogen gas produced in the unit may be used as fuel for on-site combustion units or will be transported offsite as product, and HCl will be utilized in the electrolysis and brine treatment process. Caustic soda produced in the plant will be routed to an evaporator to increase the concentration from 32% to 50%. The caustic soda will then be used on site or sent offsite via barge, railcar, trucks and/or pipeline. Chlorine, hydrogen, and caustic soda may also be transported offsite as product. The anticipated production capacities for the Chlor-Alkali Plant are:

Chlorine	700 MM lb/yr
Caustic soda	790 MM lb/yr
Hydrogen	20 MM ft <sup>3</sup> /yr
Muriatic acid	100 tons/day

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Proposed</u>
PM <sub>10</sub>	14.46
SO <sub>2</sub>	0.39
NO <sub>X</sub>	19.71
CO	54.11
VOC *	3.55

\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Proposed</u>
1,4-Dichlorobenzene	<0.01
Benzene	<0.01
Carbon tetrachloride	<0.01
Formaldehyde	0.05
n-Hexane	1.16

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**Geismar, Ascension Parish, Louisiana**

**\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants  
(TAPs):**

Pollutant	Proposed
Naphthalene	<0.01
Toluene	<0.01
Total	1.21
Other:	Proposed
Chlorine	0.13
Hydrochloric acid	0.09
Sulfuric acid	<0.01
Total Suspended Particles	1.12
Total	1.34

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) and Non-Attainment New Source Review (NNSR) do not apply.

The pollutant emission increases that will result from the project for the sources associated with the proposed Chlor-Alkali Plant are included in the following table.

Pollutant	Emission Rate Increase (tons/yr)	PSD Threshold (tons/yr)	NNSR Threshold (tons/yr)	Netting Analysis Required
PM/PM <sub>10</sub>	14.52	25/15	N/A	No
SO <sub>2</sub>	0.39	40	N/A	No
NO <sub>x</sub>	19.71	40	40 (25)	No
CO	54.11	100	N/A	No
VOC	3.56	N/A	40 (25)	No

Because the construction and operation of the proposed Chlor-Alkali Plant will not increase the production capacity of any downstream units, nor will it result in a bottleneck for any processes at the facility, there are no upstream or downstream affected sources. Project emissions are limited to the sources associated with the proposed Chlor-Alkali Plant. The

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proposed Chlor-Alkali Plant boiler (EPN 5-07) will be equipped with ultra low NO<sub>x</sub> burners (ULNB).

The facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51 and is a part of WVC which is a major source of TAPs.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2007; and in the *Gonzales Weekly*, Geismar, on <date>, 2007. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>, 2007. All comments will be considered prior to the final permit decision.

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**VII. Effects on Ambient Air**

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
—	—	—	—
—	—	—	—

**VIII. General Condition XVII Activities**

Work Activity	Emission Rates - tons				
	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
Alpha Cellulose Materials for Brine Processing Filters	<0.001	—	—	—	—
Emergency Generator	0.05	0.04	0.65	0.14	0.05
Firewater Pump Driver	0.01	0.01	0.18	0.04	0.02

**IX. Insignificant Activities**

ID No.:	Description	Citation
IA-01	Chlorine Compressor Lubrication System Tank	LAC 33:III.501.B.5.A.3
IA-02	Diesel Tank for Emergency Generator – 10,000 gal	LAC 33:III.501.B.5.A.3
IA-03	Diesel Tank for Fire Water Pump – 250 gal	LAC 33:III.501.B.5.A.3
IA-04	Hydraulic Oil Unit	LAC 33:III.501.B.5.A.3
IA-05	Chilled Water Circulation Tank	LAC 33:III.501.B.5.A.4
IA-06	Cell Room Sump	LAC 33:III.501.B.5.A.10
IA-07	Chlorine Processing Area Sump	LAC 33:III.501.B.5.A.10
IA-08	Wastewater Tank – 100,000 gal	LAC 33:III.501.B.5.A.10
IA-09	Sodium Thiosulfate Storage Tank	LAC 33:III.501.B.5.B.4

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<u>ID No.:</u>	<u>Description</u>	<u>Citation</u>
IA-10	20% Caustic Soda Tank – 25,000 gal	LAC 33:III.501.B.5.B.40
IA-11	Caustic Circulation Tank – 14,000 gal	LAC 33:III.501.B.5.B.40
IA-12	Caustic Evaporation Unit 790 MM lb/yr (caustic dry weight)	LAC 33:III.501.B.5.B.40
IA-13	Caustic Evaporator Feed Tank – 75,000 gal	LAC 33:III.501.B.5.B.40
IA-14	Caustic Head Tank – 6000 gal	LAC 33:III.501.B.5.B.40
IA-15	Caustic Product Pump Tank – 10,000 gal	LAC 33:III.501.B.5.B.40
IA-16	Caustic Storage Tank 1 – 1,500,000 gal	LAC 33:III.501.B.5.B.40
IA-17	Caustic Storage Tank 2 – 1,500,000 gal	LAC 33:III.501.B.5.B.40
IA-18	Caustic Storage Tank 3 – 1,500,000 gal	LAC 33:III.501.B.5.B.40
IA-19	Caustic Storage Tank 4 – 1,500,000 gal	LAC 33:III.501.B.5.B.40
IA-20	Caustic Storage Tank 5 – 2,000,000 gal	LAC 33:III.501.B.5.B.40
IA-21	Caustic Storage Tank 6 – 2,000,000 gal	LAC 33:III.501.B.5.B.40
IA-22	Chlorine Vent System Caustic Head Tank	LAC 33:III.501.B.5.B.40
IA-23	Laboratory Activities	LAC 33:III.501.B.5.A.6

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**Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III Chapter																
		5*	9	11	13	15	2103	2107	2111	2113	2115	2116*	2153	22	29*	51*	53*	56
GRP023	Entire Facility	1	1	1	1				1				3		1	1	1	1
EQT 77	1-07 – Chlorine Vent System Tower																	1
EQT 78	2-07 – Atmospheric Scrubber																	1
EQT 79	3-07 – Cooling Tower													1				
EQT 80	5-07 – Chlor-Alkali Plant Boiler	1	1	1	2				1					1				
EQT 81	6-07 – Salt Handling and Transfer				2													
EQT 82	T1-07 – Brine Ion Exchange Regeneration Effluent Tank								3									1
EQT 83	T2-07 – Strong Acid Feed Tank								3									1
EQT 84	T3-07 – Blowdown Tank									1								1
EQT 85	T4-07 – Blowdown Accumulator									1								1
EQT 86	2-07-HCl – HCl Absorber																	
EQT 87	2-07-V-1600 – Barometric Seal Tank								3									
EQT 88	2-07-V-1601 – Chlorate Destruction Tank								3									
EQT 89	2-07-V-1602 – Free Chlorine Destruction Tank								3									1
EQT 90	2-07-V-2260 – Anolyte Blowdown Tank									3								
EQT 91	2-07-V-7101a – HCl Storage Tank									3								1
EQT 92	2-07-V-7101b – HCl Storage Tank									3								1

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

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**Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter																
		5▲	9	11	13	15	2103	2107	2111	2113	2115	2116*	2153	22	29*	51*	53*	56
FUG 06	4-07 – Fugitive Emissions																1	

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.
  - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Chlor-Alkali Plant**  
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**Geismar, Ascension Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60						40 CFR 61						40 CFR 63						40 CFR					
		A	Db	Ka	Kb	A	M	FF	A	F	DDDDD	GGGGG	III	NNNNN	64	68	82	40 CFR	63	64	68	82	40 CFR	63	
GRP023	Entire Facility	1				3	3	1	3				3	3	3	3	3	3	3	3	3	3	3	1	1
EQT 77	1-07 - Chlorine Vent System Tower																								
EQT 78	2-07 - Atmospheric Scrubber																								
EQT 79	3-07 - Cooling Tower																								
EQT 80	5-07 - Chlor-Alkali Plant Boiler		1																						
EQT 81	6-07 - Salt Handling and Transfer																								
EQT 82	T1-07 - Brine Ion Exchange Regeneration Effluent Tank																								
EQT 83	T2-07 - Strong Acid Feed Tank																								
EQT 84	T3-07 - Blowdown Tank																								
EQT 85	T4-07 - Blowdown Accumulator																								
EQT 86	2-07-HCl - HCl Absorber																								
EQT 87	2-07-V-1600 - Barometric Seal Tank																								
EQT 88	2-07-V-1601 - Chlorate Destruction Tank																								
EQT 89	2-07-V-1602 - Free Chlorine Destruction Tank																								
EQT 90	2-07-V-2260 - Anolyte Blowdown Tank																								
EQT 91	2-07-V-7101a - HCl Storage Tank																								
EQT 92	2-07-V-7101b - HCl Storage Tank																								
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### KEY TO MATRIX

- 1    -The regulations have applicable requirements that apply to this particular emission source.  
      -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2    -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3    -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
GRP023 Entire Facility	Limiting VOC Emissions from Industrial Wastewater LAC 33:III.2153	DOES NOT APPLY – This unit is not an affected source category and does not generate volatile organic compounds (VOC) wastewater.
	Emission Standard for Asbestos LAC 33:III.5151	DOES NOT APPLY – Regulated asbestos containing materials (RACM) will not be used in the construction of this new unit.
	National Emission Standard for Benzene Waste Operations – Subpart FF 40 CFR 61.340	DOES NOT APPLY – This unit does not generate benzene containing waste streams.
	National Emission Standards for Asbestos, Subpart M, Standard for Demolition and Renovation 40 CFR 61.140	DOES NOT APPLY – Regulated asbestos containing materials (RACM) will not be used in the construction of this new unit.
	National Emission Standards for Organic Hazardous Air Pollutants from SOCMI – Subpart F 40 CFR 63.100	DOES NOT APPLY – This unit is not an affected CMPU because it does not produce a SOCMI chemical.
	National Emission Standards for Hazardous Air Pollutants for Source Categories: Site Remediation – Subpart GGGG 40 CFR 63.7880	DOES NOT APPLY – No site remediation activities subject to this rule are being conducted by WVC. Therefore, this rule does not apply to this facility.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
GRP023 Entire Facility (Continued)	Subpart III – National Emission Standards for Hazardous Air Pollutants: Mercury Emissions from Mercury Cell Chlor-Alkali Plants 40 CFR 63.8180	DOES NOT APPLY – This rule applies to a facility using mercury cells to manufacture product chlorine, product caustic or by-product hydrogen. Because this facility will utilize membrane cell technology, instead of mercury cells, this rule does not apply.
	Subpart NNNN – National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production 40 CFR 63.8985	DOES NOT APPLY – This rule does not apply to a facility that produces HCl through the direct synthesis of hydrogen and chlorine and is part of a Chlor-Alkali Plant. Therefore, this rule does not apply to this facility.
EQT 80 5-07 – Chlor-Alkali Plant Boiler	Emission Limitations for Other SO <sub>2</sub> Sources LAC 33:III.1503.C	EXEMPT – This source emits less than 250 tons/yr of sulfur compounds measured as SO <sub>2</sub> .
EQT 81 6-07 – Salt Handling and Transfer	Emission Standards for Particulate Matter LAC 33:III.1311.E	EXEMPT – Emissions already less than that allowed by the process weight rate limitation (Table 3) will be considered by the administrative authority for exemption from the state opacity limit in LAC 33:III.1311.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 82 T1-07 – Brine Ion Exchange Regeneration Effluent Tank	Storage of Volatile Organic Compounds LAC 33:III.2103	DOES NOT APPLY – Tank does not store a volatile organic compound.
	New Source Performance Standards – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – Subpart Kb 40 CFR 60.110b	DOES NOT APPLY – Tank does not store a volatile organic liquid.
EQT 83 T2-07 – Strong Acid Fee Tank	Storage of Volatile Organic Compounds LAC 33:III.2103	DOES NOT APPLY – Tank does not store a volatile organic compound.
	New Source Performance Standards – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – Subpart Kb 40 CFR 60.110b	DOES NOT APPLY – Tank does not store a volatile organic liquid.
EQT 84 T3-07 – Blowdown Tank	New Source Performance Standards – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – Subpart Kb 40 CFR 60.110b	DOES NOT APPLY – Pressure vessels designed to operate in excess of 29.7 psia and without emissions to the atmosphere are not subject to this subpart.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Chlor-Alkali Plant**  
**Agency Interest No.: 1138; PER20070002**  
**Westlake Vinyls Company, LP**  
**Geismar, Ascension Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 85 T4-07 – Blowdown Accumulator	New Source Performance Standards – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – Subpart Kb 40 CFR 60.110b	DOES NOT APPLY – Pressure vessels designed to operate in excess of 29.7 psia and without emissions to the atmosphere are not subject to this subpart.
EQT 87 2-07-V-1600 – Barometric Seal Tank	Storage of Volatile Organic Compounds LAC 33.III.2103	DOES NOT APPLY – Tank does not store a volatile organic compound.
	New Source Performance Standards – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – Subpart Kb 40 CFR 60.110b	DOES NOT APPLY - Tank does not store a volatile organic liquid.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Chlor-Alkali Plant**  
**Agency Interest No.: 1138; PER20070002**  
**Westlake Vinyls Company, LP**  
**Geismar, Ascension Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 88 2-07-V-1601 - Chlorate Destruction Tank	Storage of Volatile Organic Compounds LAC 33:III.2103	DOES NOT APPLY - Tank does not store a volatile organic compound.
	New Source Performance Standards – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – Subpart Kb 40 CFR 60.110b	DOES NOT APPLY - Tank does not store a volatile organic liquid.
EQT 89 2-07-V-1602 - Free Chlorine Destruction Tank	Storage of Volatile Organic Compounds LAC 33:III.2103	DOES NOT APPLY - Tank does not store a volatile organic compound.
	New Source Performance Standards – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – Subpart Kb 40 CFR 60.110b	DOES NOT APPLY - Tank does not store a volatile organic liquid.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Chlor-Alkali Plant**  
**Agency Interest No.: 1138; PER20070002**  
**Westlake Vinyls Company, LP**  
**Geismar, Ascension Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 90 2-07-V-2260 - Anolyte Blowdown Tank	Storage of Volatile Organic Compounds LAC 33:III.2103	DOES NOT APPLY - Tank does not store a volatile organic compound.
EQT 91 2-07-V-7101a - HCl Storage Tank	New Source Performance Standards – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – Subpart Kb 40 CFR 60.110b	DOES NOT APPLY - Tank does not store a volatile organic liquid.
	Storage of Volatile Organic Compounds LAC 33:III.2103	DOES NOT APPLY - Tank does not store a volatile organic compound.
	New Source Performance Standards – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – Subpart Kb 40 CFR 60.110b	DOES NOT APPLY - Tank does not store a volatile organic liquid.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Chlor-Alkali Plant**  
**Agency Interest No.: 1138; PER20070002**  
**Westlake Vinyls Company, LP**  
**Geismar, Ascension Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 92 2-07-V-7101b - HCl Storage Tank	Storage of Volatile Organic Compounds LAC 33:III.2103	DOES NOT APPLY – Tank does not store a volatile organic compound.
	New Source Performance Standards – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – Subpart Kb 40 CFR 60.110b	DOES NOT APPLY - Tank does not store a volatile organic liquid.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## **40 CFR PART 70 GENERAL CONDITIONS**

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:

## 40 CFR PART 70 GENERAL CONDITIONS

1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]

## 40 CFR PART 70 GENERAL CONDITIONS

- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;

## **40 CFR PART 70 GENERAL CONDITIONS**

2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting

## 40 CFR PART 70 GENERAL CONDITIONS

requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(ii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
  - 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  - 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  - 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  - 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  - 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  - 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- V. Data availability for continuous monitoring or monitoring to collect data at specific

## **40 CFR PART 70 GENERAL CONDITIONS**

intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated April 4, 2007, along with supplemental information dated April 12, 2007 and April 19, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

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- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
  - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.

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- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
  - 1. Report by June 30 to cover January through March
  - 2. Report by September 30 to cover April through June
  - 3. Report by December 31 to cover July through September
  - 4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
  - 1. Description of noncomplying emission(s);
  - 2. Cause of noncompliance;
  - 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  - 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  - 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;

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- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
- 1. Generally be less than 5 TPY
  - 2. Be less than the minimum emission rate (MER)
  - 3. Be scheduled daily, weekly, monthly, etc., or
  - 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

**LOUISIANA AIR EMISSION PERMIT  
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- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**General Information**

AI ID: 1138 Westlake Vinyls Co LP - Chlor-Alkali Plant  
 Activity Number: PER20070002  
 Permit Number: 3057-Y0  
 Air - Title V Regular Permit Initial

Also Known As:	ID	Name	User Group	Start Date
	2019	Permit #	Air Permitting	08-25-1999
0180-00008		Westlake Vinyls Co LP	CDS Number	11-16-1999
0180-00008		Westlake Vinyls Co LP	Emission Inventory	02-25-2004
51-0370356		Federal Tax ID	Federal Tax ID	11-21-1999
LAD003913449		Westlake Vinyls Co LP	Hazardous Waste Notification	10-07-2005
PNTCA		GPPRA Baselines	Hazardous Waste Permitting	10-01-1997
LAD003913449		Borden	Inactive & Abandoned Sites	11-01-1979
LA0000281		LPDES #	LPDES Permit #	05-22-2003
LAR10B028		LPDES #	LPDES Permit #	05-22-2003
WP0912		LWDPS #	LWDPS Permit #	06-25-2003
04105		LELAP #	Laboratory Services Division	02-23-2004
		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
GI-558		Radiation General License	Radiation License Number	04-18-2006
G-005-11003		Site ID #	Solid Waste Facility No.	11-30-1999
GD-005-1652		Site ID #	Solid Waste Facility No.	07-24-2001
16892		Borden Chemical	TEMPO Merge	10-31-2000
38776		Borden Chemicals & Plastics	TEMPO Merge	10-31-2000
45778		Borden Chemical Division of Borden Inc	TEMPO Merge	10-31-2000
48995		Borden Chemicals & Plastics	TEMPO Merge	10-31-2000
83338		Borden Chemical Inc - Geismar Plant	TEMPO Merge	07-10-2001
84810		Borden Chemical Inc - Formaldehyde Plant	TEMPO Merge	10-31-2000
90754		Borden Chemical Inc - Formaldehyde Plant	TEMPO Merge	08-01-2001
0180-00008		Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
70734BRDNCLOUS		TRI #	Toxic Release Inventory	07-13-2004
03-000824		UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-11-2002
1243		UST Case History Case Number	Underground Storage Tanks	11-21-1999
878		UST Case History Case Number	Underground Storage Tanks	11-21-1999
879		UST Case History Case Number	Underground Storage Tanks	11-21-1999
Physical Location:			Main FAX:	2256730444
Mailing Address:			Main Phone:	2256730647

36045 Hwy 30  
 Geismar, LA 70734  
 PO Box 228  
 Geismar, LA 707340228

Physical Location:  
 Mailing Address:

## General Information

AI ID: 1138 Westlake Vinyl's Co LP - Chlor-Alkali Plant  
Activity Number: PER20070002

Permit Number: 3057-V0

Air - Title V Regular Permit Initial

Location of Front Gate: 30° 20' 45" 71 hundredths latitude, 91° 15' 28" 1 hundredths longitude, Coordinate Method: GPS-Unspecified, Coordinate Datum: NAD83

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	John V. Casey	PO Box 228 Geismar, LA 707340228	2256736121 (WP)	Accident Prevention Contact for
	John V. Casey	PO Box 228 Geismar, LA 707340228	2256730444 (WF)	Accident Prevention Contact for
	John V. Casey	PO Box 228 Geismar, LA 707340228	2256730444 (WF)	Solid Waste Billing Party for
	John V. Casey	PO Box 228 Geismar, LA 707340228	2256736121 (WP)	Water Billing Party for
	John V. Casey	PO Box 228 Geismar, LA 707340228	2256736121 (WP)	Solid Waste Billing Party for
	John V. Casey	PO Box 228 Geismar, LA 707340228	2256730444 (WF)	Water Billing Party for
	Karen Khonsari	PO Box 228 Geismar, LA 707340228	KKHONSARI@WES	Radiation Contact For
	Karen Khonsari	PO Box 228 Geismar, LA 707340228	2256730647 (WP)	Radiation Contact For
	Karen Khonsari	PO Box 228 Geismar, LA 707340228	2256730647 (WP)	Emission Inventory Contact for
	Karen Khonsari	PO Box 228 Geismar, LA 707340228	2256730647 (WP)	TEDI Contact for
	Karen Khonsari	PO Box 228 Geismar, LA 707340228	KKHONSARI@WES	TEDI Contact for
	Karen Khonsari	PO Box 228 Geismar, LA 707340228	KKHONSARI@WES	Emission Inventory Contact for
	Blake Mora	PO Box 228 Geismar, LA 707340228	2256730607 (WP)	Responsible Official for
	Blake Mora	PO Box 228 Geismar, LA 707340228	2256730444 (WF)	Accident Prevention Billing Party for
	Blake Mora	PO Box 228 Geismar, LA 707340228	2256730607 (WP)	Accident Prevention Billing Party for
	Blake Mora	PO Box 228 Geismar, LA 707340228	2256730444 (WF)	Accident Prevention Contact for
	Blake Mora	PO Box 228 Geismar, LA 707340228	2256730607 (WP)	Accident Prevention Contact for
	Blake Mora	PO Box 228 Geismar, LA 707340228	2256730444 (WF)	Responsible Official for
	Blake Mora	PO Box 228 Geismar, LA 707340228	2256730444 (WF)	Haz. Waste Billing Party for
	Blake Mora	PO Box 228 Geismar, LA 707340228	2256730607 (WP)	Haz. Waste Billing Party for
	Blake Mora	PO Box 228 Geismar, LA 707340228	2256730607 (WP)	Water Permit Contact For
	Blake Mora	PO Box 228 Geismar, LA 707340228	2256730444 (WF)	Water Permit Contact For

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Westlake Vinyl's Co LP	PO Box 228 Geismar, LA 70734	Agent of Service for	
	Westlake Vinyl's Co LP	PO Box 228 Geismar, LA 70734	Radiation License Billing Party for	
	Westlake Vinyl's Co LP	PO Box 228 Geismar, LA 70734	Air Billing Party for	
	Westlake Vinyl's Co LP	PO Box 228 Geismar, LA 70734	Owes	
SIC Codes:	2812, Alkalies and chlorine			

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

## INVENTORIES

AI ID: 1138 - Westlake Vinyls Co LP - Chlor-Alkali Plant  
 Activity Number: PER2007002  
 Permit Number: 3057-V0  
 Air - Title V Regular Permit Initial

### Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT077	1-07 - Chlorine Vent System Tower		1670 ft <sup>3</sup> /min	1670 ft <sup>3</sup> /min		8760 hr/yr (All Year)
EQT078	2-07 - Atmospheric Scrubber		1670 ft <sup>3</sup> /min	1670 ft <sup>3</sup> /min		8760 hr/yr (All Year)
EQT079	3-07 - Cooling Tower		27000 gallons/min	27000 gallons/min		8760 hr/yr (All Year)
EQT080	5-07 - Chlor-Alkali Plant Boiler		150 MM BTU/hr	150 MM BTU/hr		8760 hr/yr (All Year)
EQT081	6-07 - Salt Handling and Transfer		650000 tons/yr	650000 tons/yr		8760 hr/yr (All Year)
EQT082	71-07 - Brine Ion Exchange Regeneration Effluent Tank	75000 gallons		1.33 MM gallons/yr		8760 hr/yr (All Year)
EQT083	72-07 - Strong Acid Feed Tank	35000 gallons		1.82 MM gallons/yr		8760 hr/yr (All Year)
EQT084	73-07 - Blowdown Tank	425 gallons		22100 gallons/yr		8760 hr/yr (All Year)
EQT085	74-07 - Blowdown Accumulator	850 gallons		44200 gallons/yr		8760 hr/yr (All Year)
EQT086	2-07-HCl - HCl Absorber			126100 gallons/yr		8760 hr/yr (All Year)
EQT087	2-07-V-1600 - Barometric Seal Tank (controlled to 2-07)	2425 gallons		1.3 MM gallons/yr		8760 hr/yr (All Year)
EQT088	2-07-V-1601 - Chlorate Destruction Tank (controlled to 2-07)	25000 gallons		1.3 MM gallons/yr		8760 hr/yr (All Year)
EQT089	2-07-V-1602 - Free Chlorine Destruction Tank (controlled to 2-07)	25000 gallons		4.8 MM gallons/yr		8760 hr/yr (All Year)
EQT090	2-07-V-2260 - Anolyte Blowdown Tank (controlled to 2-07)	92000 gallons		1.82 MM gallons/yr		8760 hr/yr (All Year)
EQT091	2-07-V-7101a - HCl Storage Tank (controlled to 2-07)	35000 gallons		1.82 MM gallons/yr		8760 hr/yr (All Year)
EQT092	2-07-V-7101b - HCl Storage Tank (controlled to 2-07)	35000 gallons				8760 hr/yr (All Year)
FUG006	4-07 - Fugitive Emissions					8760 hr/yr (All Year)

### Subject Item Groups:

ID	Description	Included Components (from Above)
GRP023	Entire Facility	EQT77 1-07 - Chlorine Vent System Tower
GRP023	Entire Facility	EQT78 2-07 - Atmospheric Scrubber
GRP023	Entire Facility	EQT79 3-07 - Cooling Tower
GRP023	Entire Facility	EQT80 5-07 - Chlor-Alkali Plant Boiler
GRP023	Entire Facility	EQT81 6-07 - Salt Handling and Transfer
GRP023	Entire Facility	EQT82 T1-07 - Brine Ion Exchange Regeneration Effluent Tank
GRP023	Entire Facility	EQT83 T2-07 - Strong Acid Feed Tank
GRP023	Entire Facility	EQT84 T3-07 - Blowdown Tank
GRP023	Entire Facility	EQT85 T4-07 - Blowdown Accumulator
GRP023	Entire Facility	EQT86 2-07-HCl - HCl Absorber
GRP023	Entire Facility	EQT87 2-07-V-1600 - Barometric Seal Tank (controlled to 2-07)
GRP023	Entire Facility	EQT88 2-07-V-1601 - Chlorate Destruction Tank (controlled to 2-07)
GRP023	Entire Facility	EQT89 2-07-V-1602 - Free Chlorine Destruction Tank (controlled to 2-07)
GRP023	Entire Facility	EQT90 2-07-V-2260 - Anolyte Blowdown Tank (controlled to 2-07)
GRP023	Entire Facility	EQT91 2-07-V-7101a - HCl Storage Tank (controlled to 2-07)
GRP023	Entire Facility	EQT92 2-07-V-7101b - HCl Storage Tank (controlled to 2-07)

## INVENTORIES

AI ID: 1138 - Westlake Vinyls Co LP - Chlor-Alkali Plant  
 Activity Number: PER2007002  
 Permit Number: 3057-V0  
 Air - Title V Regular Permit Initial

### Subject Item Groups:

ID	Description	Included Components (from Above)
GRP023	Entire Facility	FUG6 4-07 - Fugitive Emissions

### Relationships:

Subject Item	Relationship	Subject Item
EQT86 2-07-HCl - HCl Absorber	Vents to	EQT78 2-07 - Atmospheric Scrubber
EQT87 2-07-V-1600 - Barometric Seal Tank (controlled to 2-07)	Vents to	EQT78 2-07 - Atmospheric Scrubber
EQT88 2-07-V-1601 - Chlorate Destruction Tank (controlled to 2-07)	Vents to	EQT78 2-07 - Atmospheric Scrubber
EQT89 2-07-V-1602 - Free Chlorine Destruction Tank (controlled to 2-07)	Vents to	EQT78 2-07 - Atmospheric Scrubber
EQT90 2-07-V-2260 - Anolyte Blowdown Tank (controlled to 2-07)	Vents to	EQT78 2-07 - Atmospheric Scrubber
EQT91 2-07-V-7101a - HCl Storage Tank (controlled to 2-07)	Vents to	EQT78 2-07 - Atmospheric Scrubber
EQT92 2-07-V-7101b - HCl Storage Tank (controlled to 2-07)	Vents to	EQT78 2-07 - Atmospheric Scrubber

### Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT077 1-07 - Chlorine Vent System Tower	10.1	1899	2	45	110	
EQT078 2-07 - Atmospheric Scrubber			2.5			
EQT079 3-07 - Cooling Tower					59.3	
EQT080 5-07 - Chlor-Alkali Plant Boiler		63222	9		65.08	329

### Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP023	700	Mm Lb/Yr	0420 - Caustic/Chlorine (Rated Capacity)

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1138 - Westlake Vinyls Co LP - Chlor-Alkali Plant

Activity Number: PER20070002

Permit Number: 3057-V0

Air - Title V Regular Permit Initial

### All phases

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 079 3-07	0.04	0.05	0.18												
EQT 080 5-07	1.12	1.68	4.90	0.09	0.13	0.39	4.50	6.75	19.71	12.35	18.53	54.11	0.81	1.21	3.54
EQT 081 6-07	2.14	2.14	9.38												
EQT 084 T3-07												< 0.001	< 0.001	< 0.01	
EQT 085 T4-07												0.002	0.002	0.002	0.01

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

#### Permit Phase Totals:

PM10: 14.46 tons/yr  
SO2: 0.39 tons/yr  
NOx: 19.71 tons/yr  
CO: 54.11 tons/yr  
VOC: 3.55 tons/yr

#### Emission rates Notes:

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AIID: 1138 - Westlake Vinyls Co LP - Chlor-Alkali Plant

Activity Number: PER20070002

Permit Number: 3057-Y0

Air - Title V Regular Permit Initial

**All phases**

Subject Item	1,4-Dichlorobenzene			Benzene			Carbon tetrachloride			Chlorine			Formaldehyde		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 077 1-07										0.03	0.03	0.11			
EQT 078 2-07										< 0.001	< 0.001	< 0.01			
EQT 079 3-07															
EQT 080 5-07	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01							0.01	0.02	0.05
EQT 082 T1-07															
EQT 083 T2-07															
EQT 084 T3-07							< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	
EQT 085 T4-07							< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	
FUG 006 4-07										0.002	0.002	0.003	0.003	0.01	

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1138 - Westlake Vinyl's Co LP - Chlor-Alkali Plant

Activity Number: PER20070002

Permit Number: 3057-V0

Air - Title V Regular Permit Initial

### All phases

Subject Item	Hydrochloric acid			Naphthalene			Sulfuric acid			Toluene			Total suspended particulate		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 077 1-07															
EQT 078 2-07	0.02	0.02	0.08												
EQT 079 3-07															
EQT 080 5-07		<	0.001	<	0.001	<	0.01			<	0.001	<	0.001	<	0.01
EQT 082 T1-07	<	0.001	<	0.001	<	0.01				<	0.001	<	0.001	<	0.01
EQT 083 T2-07															
EQT 084 T3-07															
EQT 085 T4-07															
FUG 006 4-07	<	0.001	0.001	<	0.01										

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1138 - Westlake Vinyl's Co LP - Chlor-Alkali Plant

Activity Number: PER2007002

Permit Number: 3057-V0

Air - Title V Regular Permit Initial

### All phases

n-Hexane			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year
EQT 077 1-07			
EQT 078 2-07			
EQT 079 3-07			
EQT 080 5-07	0.26	0.40	1.16
EQT 082 T1-07			
EQT 083 T2-07			
EQT 084 T3-07			
EQT 085 T4-07			
FLUG 006 4-07			

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Parameter Totals:

1,4-Dichlorobenzene: <0.01 tons/yr

Benzene: <0.01 tons/yr

Carbon tetrachloride: <0.01 tons/yr

Chlorine: 0.13 tons/yr

Formaldehyde: 0.05 tons/yr

Hydrochloric acid: 0.08 tons/yr

n-Hexane: 1.16 tons/yr

Naphthalene: <0.01 tons/yr

Sulfuric acid: <0.01 tons/yr

Toluene: <0.01 tons/yr

Total suspended particulate: 1.12 tons/yr

### Emission Rates Notes:

Page 3 of 4

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## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1138 - Westlake Vinyl's Co LP - Chlor-Alkali Plant

Activity Number: PER20070002

Permit Number: 3057-V0

Air - Title V Regular Permit Initial

All phases

## SPECIFIC REQUIREMENTS

A1 ID: 1138 - Westlake Vinyls Co LP - Chlor-Alkali Plant  
Activity Number: PER20070002  
Permit Number: 3057-V0  
Air - Title V Regular Permit Initial

### EQT077    1-07 - Chlorine Vent System Tower

1 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. This source emits Class III TAP only (chlorine). MACT is not required. [LAC 33:III.5109.A]

### EQT078    2-07 - Atmospheric Scrubber

2 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. This source emits Class III TAP only (chlorine and hydrochloric acid). MACT is not required. [LAC 33:III.5109.A]

### EQT080    5-07 - Chlor-Alkali Plant Boiler

3 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]

Which Months: All Year    Statistical Basis: None specified

4 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]

Which Months: All Year    Statistical Basis: None specified

5 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

6 Compliance with 40 CFR 60.48 (Subpart Db) is compliance with LAC 33:III.2201.H.1. [LAC 33:III.2107.H.1]

7 Nitrogen oxides <= 0.10 lb/MMBTU. [LAC 33:III.2201.D.1]

Which Months: May-Sep    Statistical Basis: Thirty-day rolling average

8 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d. [LAC 33:III.2201.I.2]

9 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable. [LAC 33:III.2201.I]

10 Conduct a performance/emissions test: Due within 180 days of initial startup. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources; Method 10 - Determination of Carbon Monoxide emissions from Stationary Sources, 40 CFR 60, Appendix A, Method 7E - Determination of Particulate Emissions from Stationary Sources; Method 9 - Visual Determination of the opacity of emissions from stationary sources; and Method 25A or 25B - Determination of Total Gaseous Organic Concentration using a Flame Ionization Analyzer or Non-dispersive Infrared Analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Other methods in 40 CFR 60.106 may be utilized for the above referenced methods if applicable. [LAC 33:III.501.C.6]

11 Comprehensive Toxic Air Pollutant Emission Control Program - Control emissions of Class I and Class I toxic air pollutants (TAP) to a degree that constitutes MACT. Unit fires only Group 1 Virgin Fossil Fuels or hydrogen (H<sub>2</sub>) and therefore is exempt from MACT requirements per LAC 33:III.5105.B.3.a. [LAC 33:III.5109.A]

12 Particulate matter (10 microns or less) <= 0.03 lb/MMBTU heat input. The particulate matter standards apply at all times, except during periods of startup, shutdown, or malfunction. Subpart Db. [40 CFR 60.43b]

Which Months: All Year    Statistical Basis: None specified

13 Determine compliance with the PM and opacity standards in 40 CFR 60.43b through performance testing as described in 40 CFR 60.46(d), except as provided in 40 CFR 60.46(i) and (j). Subpart Db. [40 CFR 60.46b(b)]

## SPECIFIC REQUIREMENTS

AI ID: 1138 - Westlake Vinyls Co LP - Chlor-Alkali Plant

Activity Number: PER20070002

Permit Number: 3057-V0

Air - Title V Regular Permit Initial

### **EQT080 5-07 - Chlor-Alkali Plant Boiler**

- 14 Determine compliance with the NOx standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable.  
Subpart Db. [40 CFR 60.46b(c)]
- 15 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d), except as provided in 40 CFR 60.48(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]  
Which Months: All Year Statistical Basis: Hourly average
- 16 Nitrogen oxides recordkeeping by CMS continuously, except as provided in 40 CFR 60.48(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
- 17 Use the NOx continuous emission monitoring system, installed to comply with 40 CFR 75, to meet the requirements of 40 CFR 60.44b, except as provided in 40 CFR 60.48b(g), (h), and (i). Also meet the requirements of 40 CFR 60.49b. Do not include data substituted using the missing data procedures in 40 CFR 75 Subpart D in data reported to meet the requirements of 40 CFR 60.49b. Do not bias adjust the data according to the procedure in 40 CFR 75. Subpart Db. [40 CFR 60.48b(b)(2)]
- 18 Operate NOx continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
- 19 Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NOx and opacity continuous monitoring systems. Subpart Db. [40 CFR 60.48b(e)]
- 20 When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- 21 Comply with the provisions of 40 CFR 60.48b(b), (c), (d), (e)(2), (e)(3), and (f), or monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 60.49b(c). Subpart Db. [40 CFR 60.48b(g)]
- 22 Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- 23 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency, except as provided in 40 CFR 60.49b(p). Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 24 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period.  
Subpart Db. [40 CFR 60.49b(h)]
- 25 Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 26 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 27 Comply with the carbon monoxide (CO) emission limitation in Table 1 of this regulation for New or Reconstructed Large Gaseous Fuel-Fired boilers and process heaters. Carbon monoxide emission shall not exceed 400 ppm on a dry basis corrected to 3% oxygen. Subpart DDDD. [40 CFR 63.7500]
- 28 Comply with all applicable CO monitoring requirements for new large gaseous fuel-fired boilers and process heaters with a capacity of > or = 100 MM Btu/hr. [40 CFR 63.7525]  
Comply with all applicable recordkeeping requirements for new large gaseous fuel-fired boilers and process heaters. [40 CFR 63.7555] Comply with all applicable reporting requirements for new large gaseous fuel-fired boilers and process heaters. [40 CFR 63.7554, 40 CFR 63.7550]

### **EQT082 T1-07 - Brine Ion Exchange Regeneration Effluent Tank**

- 29 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. This source emits Class III TAP only (hydrochloric acid). MACT is not required. [LAC 33:III.5109.A]

## SPECIFIC REQUIREMENTS

AI ID: 1138 - Westlake Vinyl's Co LP - Chlor-Alkali Plant

Activity Number: PER20070002

Permit Number: 3057-V0

Air - Title V Regular Permit Initial

### EQT083 T2-07 - Strong Acid Feed Tank

30 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. This source emits Class III TAP only (sulfuric acid). MACT is not required. [LAC 33:III.5109.A]

### EQT084 T3-07 - Blowdown Tank

31 Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere. [LAC 33:III.2103.B]  
32 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. This source emits Class II TAP (carbon tetrachloride) that is emitted site-wide below its MER and a Class III TAP (chlorine) so that Maximum Achievable Control Technology (MACT) is not required. [LAC 33:III.5109.A]

### EQT085 T4-07 - Blowdown Accumulator

33 Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere. [LAC 33:III.2103.B]  
34 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. This source emits Class II TAP (carbon tetrachloride) that is emitted site-wide below its MER and a Class III TAP (chlorine) so that Maximum Achievable Control Technology (MACT) is not required. [LAC 33:III.5109.A]

### EQT089 2-07-V-1602 - Free Chlorine Destruction Tank (controlled to 2-07)

35 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. This source emits Class III TAP only (chlorine). MACT is not required. [LAC 33:III.5109.A]

### EQT091 2-07-V-7101a - HCl Storage Tank (controlled to 2-07)

36 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. This source emits Class III TAP only (hydrochloric acid). MACT is not required. [LAC 33:III.5109.A]

### EQT092 2-07-V-7101b - HCl Storage Tank (controlled to 2-07)

37 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. This source emits Class III TAP only (hydrochloric acid). MACT is not required. [LAC 33:III.5109.A]

### FUG006 4-07 - Fugitive Emissions

38 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. This source emits Class III TAP only (chlorine and hydrochloric acid). MACT is not required. [LAC 33:III.5109.A]

### GRP023 Entire Facility

39 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]  
40 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]  
41 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]  
42 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]

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43 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.21.9]

44 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]

45 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]

46 1,4-Dichlorobenzene < 0.01 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

47 Benzene < 0.01 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

48 Carbon monoxide <= 54.11 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

49 Formaldehyde <= 0.05 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

50 Naphthalene < 0.01 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

51 n-Hexane <= 1.16 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

52 Nitrogen oxides <= 19.71 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

53 Particulate matter (10 microns or less) <= 14.46 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

54 Sulfur dioxide <= 0.39 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

55 Toluene < 0.01 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

56 VOC, Total <= 3.55 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

57 Hydrochloric acid <= 0.08 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

58 Sulfuric acid < 0.01 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

59 Carbon tetrachloride < 0.01 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

60 Chlorine <= 0.13 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

61 Total suspended particulate <= 1.12 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year    Statistical Basis: Annual maximum

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- 62 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 63 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 64 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 65 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 66 Submit initial annual emissions report (TEDI) to DEQ within 180 days of December 20, 1991. Identify the quantity of emissions of toxic air pollutants listed in Table 51.1 for the calendar year 1991. [LAC 33:III.5107.A.1]
- 67 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 68 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 69 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6395 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 70 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.3923]
- 71 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3923, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.3]
- 72 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 73 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 74 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ is not required. [LAC 33:III.5109.A]
- 75 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]

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- 76 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112. Table 51.2. [LAC 33:III.5109.B]
- 77 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III. Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 78 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:II.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 79 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 80 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 81 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 82 Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test. [LAC 33:III.5113.B.1]
- 83 Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ. [LAC 33:III.5113.B.2]
- 84 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 85 Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e. [LAC 33:III.5113.B.4]
- 86 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 87 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 88 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 89 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 90 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 91 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 92 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 93 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 94 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]

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95 Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations. [LAC 33:III.917.A]

96 No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety. [LAC 33:III.917.B]

97 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]

98 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:I.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33:III.927]

99 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]

100 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]

101 Submit Title V permit application for renewal: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January

through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

103 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]

104 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]

105 No Class I or Class I refrigerants shall be released to the atmosphere during the service, maintenance, repair, and disposal of defined appliances. Only certified individuals may open, change the design of, recover refrigerants from, or dispose of refrigerant containing appliances. Prior to maintenance, service, or disposal of these appliances, all refrigerants must be evacuated to a certified recovery or recycling unit. Subpart F. [40 CFR 82.150]

106 No Class I or Class I refrigerants shall be released to the atmosphere during the service, maintenance, repair, and disposal of defined appliances. Only certified individuals may open, change the design of, recover refrigerants from, or dispose of refrigerant containing appliances. Prior to maintenance, service, or disposal of these appliances, all refrigerants must be evacuated to a certified recovery or recycling unit. Subpart F. [40 CFR 82.166(n)]